

ABSTRACT OF THE DISCLOSURE

Techniques for predicting and correcting for optical distortions. A method for correcting optical distortions in a laser system includes operating a laser system at a first time to emit a laser beam. The laser system includes a laser source, a beam transfer assembly, and a lens assembly. The laser beam is capable of traversing from the laser source, through the beam transfer assembly and the lens assembly, to a laser target. Additionally, the method includes retrieving a first correction setting from a memory system. The first correction setting corresponds to the first time. Moreover the method includes adjusting at least one of the beam transfer assembly and the lens assembly in response to the first correction setting and sending the laser beam through the beam transfer assembly and the lens assembly to the laser target.

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